



**Supplementary Figure S2. T2 assays for peptide binding affinity for MHC class I.** TAP-deficient T2 cell lines stably transformed with H-2D<sup>d</sup>, H-2K<sup>d</sup> or H-2L<sup>d</sup> complexes were kindly provided by Dr Hansen, Washington University. Peptide-loaded MHC complexes were detected by fluorochrome-conjugated mAb (DB Biosciences) and the cells were analyzed using flow cytometer. A) Index and mutated peptides P and G1 or B) peptide NNP as indicated above the histograms as peptide-MHC were tested at decreasing concentrations ranging from 100  $\mu$ M to 0.01  $\mu$ M (pink 100  $\mu$ M, turquoise 10  $\mu$ M, orange 1  $\mu$ M, green 0.1  $\mu$ M, blue 0.01  $\mu$ M and grey filled no peptide) for binding to MHC class I complexes.